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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number	09/461,778	
				Filing Date	December 15, 1999	
				First Named Inventor	Albert H. Taddiken	
				Group Art Unit	AWA 2662	
				Examiner Name	Not Yet Assigned	
Attorney Docket Number	49581-P020US					
Sheet	1	of	1			

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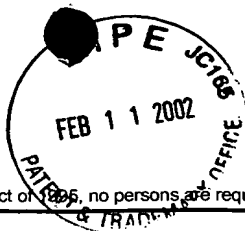
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
D.G.	A		WO 99 34541	A	Mediaone Group, Inc.	07-08-1999	page 3, line 20-30; page 6, line 4; page 11, line 12; figure 3	
D.O.	B		WO 99 31811	A	Thomson Consumer Elect	06-24-1999	page 2, line 1; page 4, line 5	

Examiner Signature		Date Considered	1/27/04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	09/461,778	
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			Art Unit	2739 2662	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	49581-P020US-09905259

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U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
D.O.	A	4,748,626	05-31-1988	Wong	
D.O.	B	5,563,545	10-08-1996	Scheinberg	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
D.O.	C	Razavi, Behzad, Kwing F. Lee, Ran-Hong Yan, and Robert G. Swartz. "A 3-GHz 25-mW CMOS Phase-Locked Loop." 1994 Symposium on VLSI Circuits Digest of Technical Papers. (1994). 131-132.	
D.O.	D	Racanelli, Marco et al. "RF BiCMOS Technology for Highly Integrated Wireless Systems." 1999 IEEE RFIC Symposium. (1999)	
D.O.	E	Boutin, Noel. "Complex Signals: Part 1" RF Featured Technology. (December 1989). 27-75.	
D.O.	F	Lovelace, David, et al. "Silicon Upconverter RF IC Simplifies Cable Modem Designs" Microwaves & RF (March 1997). 136-142.	
D.O.	G	Abidi, Asad A. "Direct-Conversion Radio Transceivers for Digital Communications." IEEE International Solid-State Circuits Conference. (1995). 186-187; 363-364.	

Examiner Signature		Date Considered	2/27/04
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